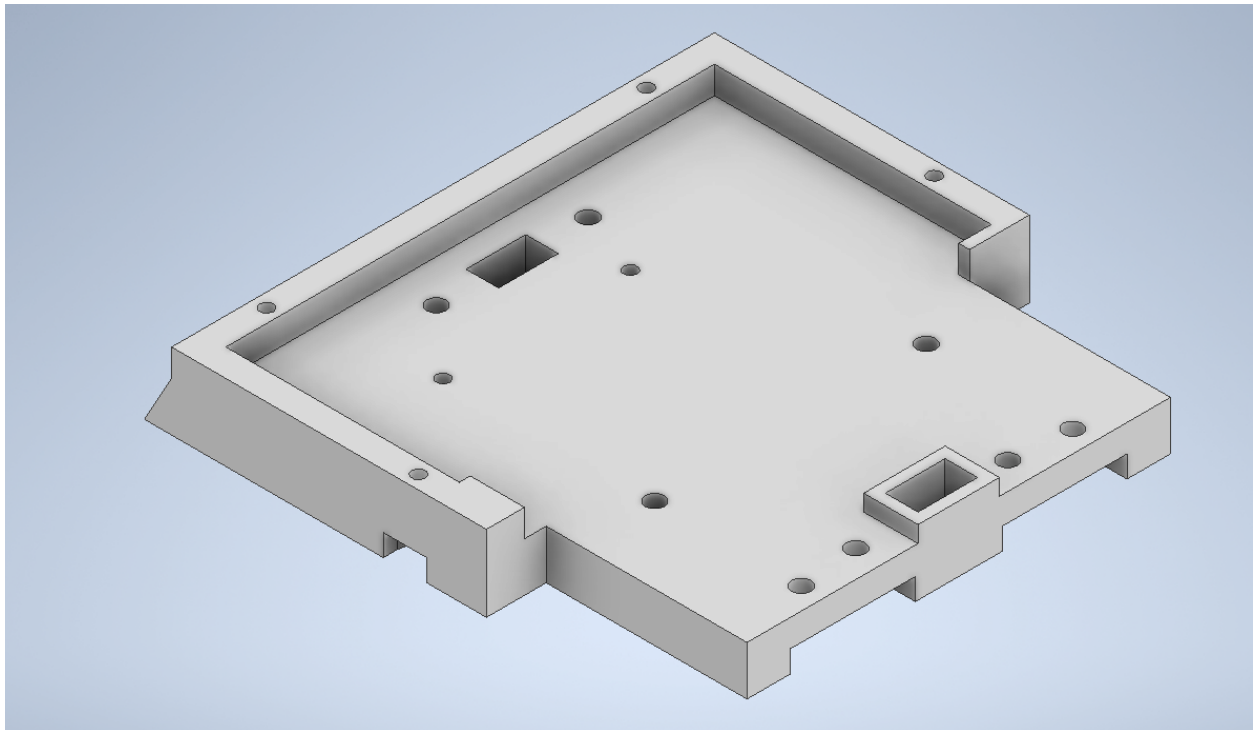Jeff is a generic chassis that offers an easy to use body to house various components used in a simple sumobot.
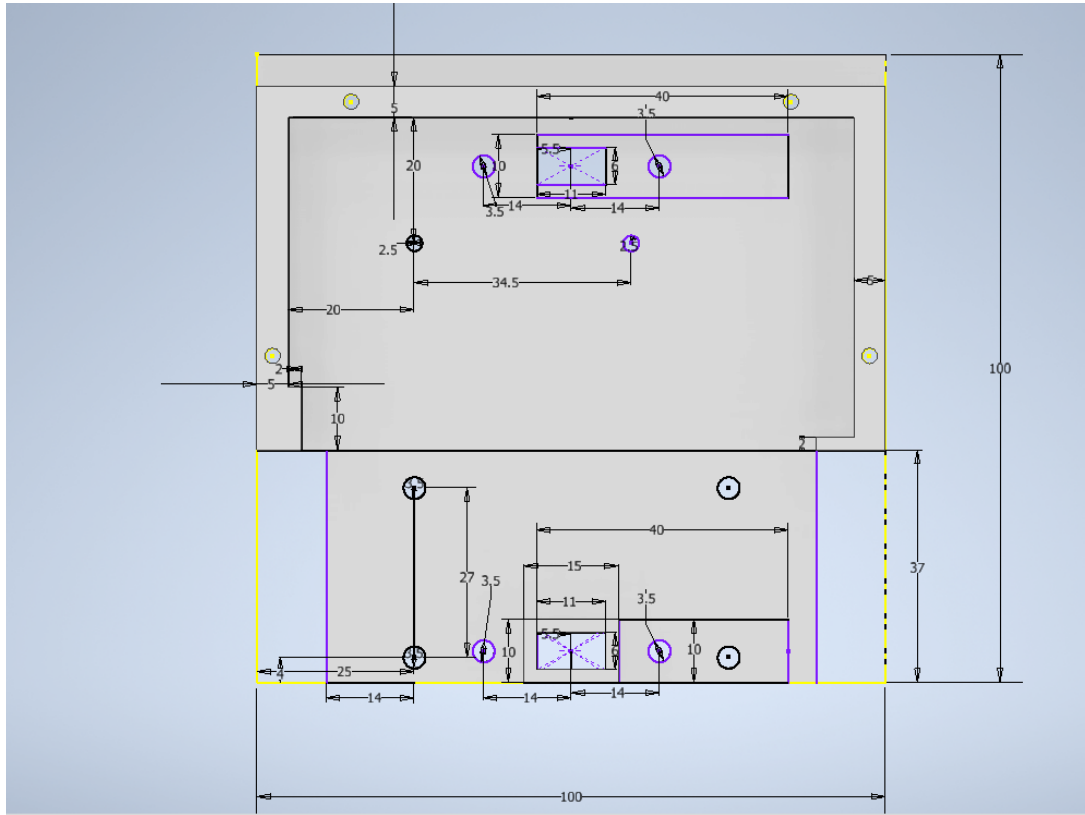
It is a two part design featuring a base "Jeff" and a cover "Jeffs hair" coupled together using four M2x20mm nuts and bolts. This chassis design houses 2 motors (attached by their holders), one HC-SR04 ultrasonic sensor, two $\mathrm{TCRT5000}$ based line sensors and other relevant electronics.

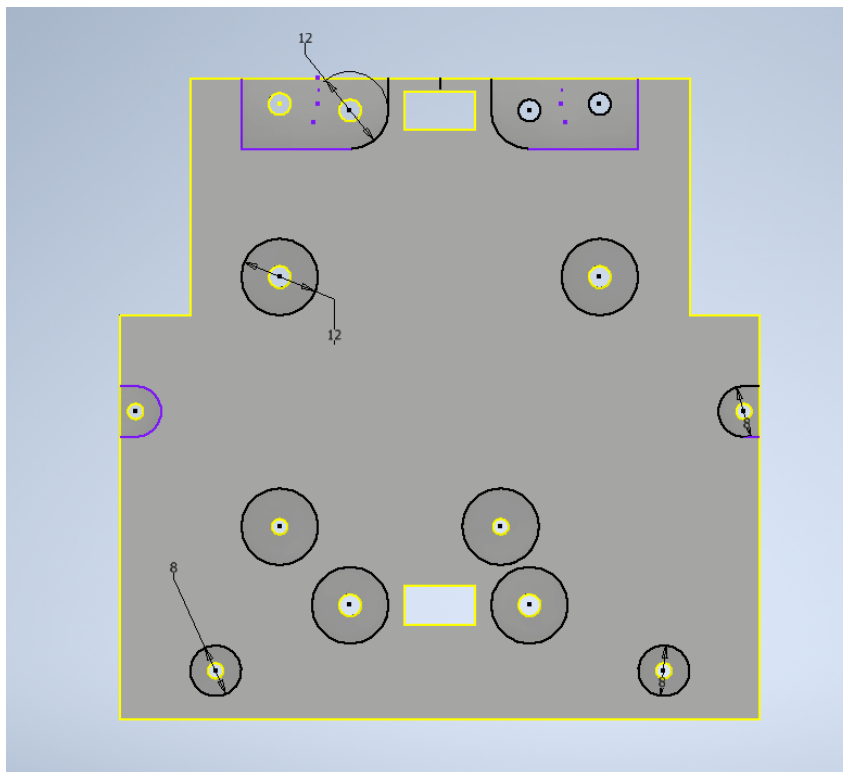All designs were made using Autodesk Inventor 2020.
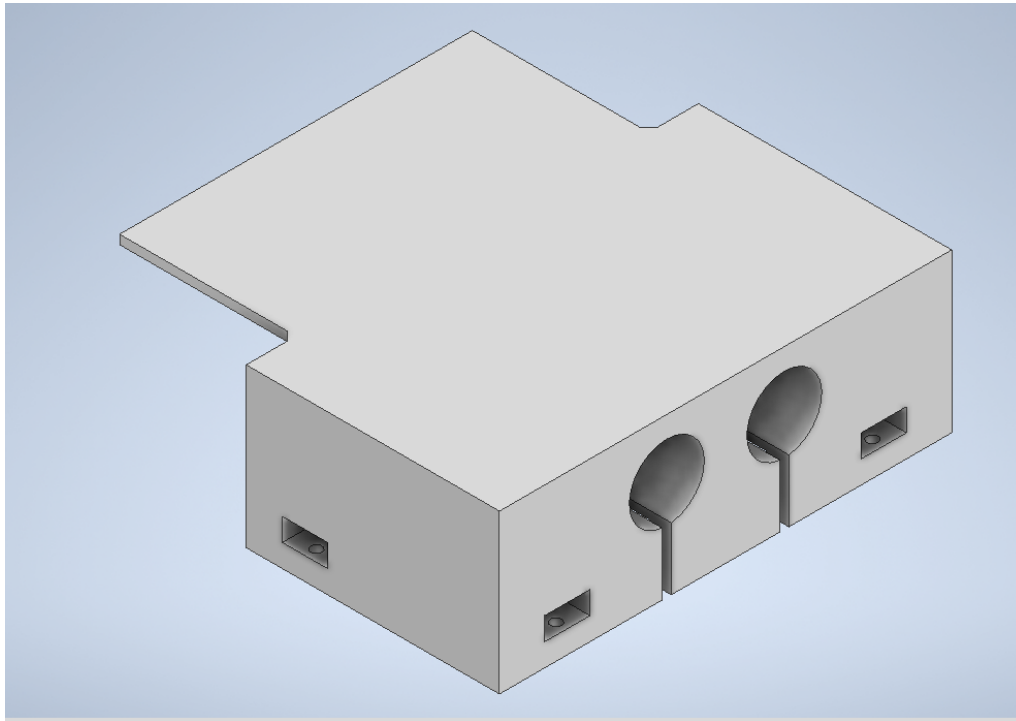
Jeff

Isometric view of Jeff
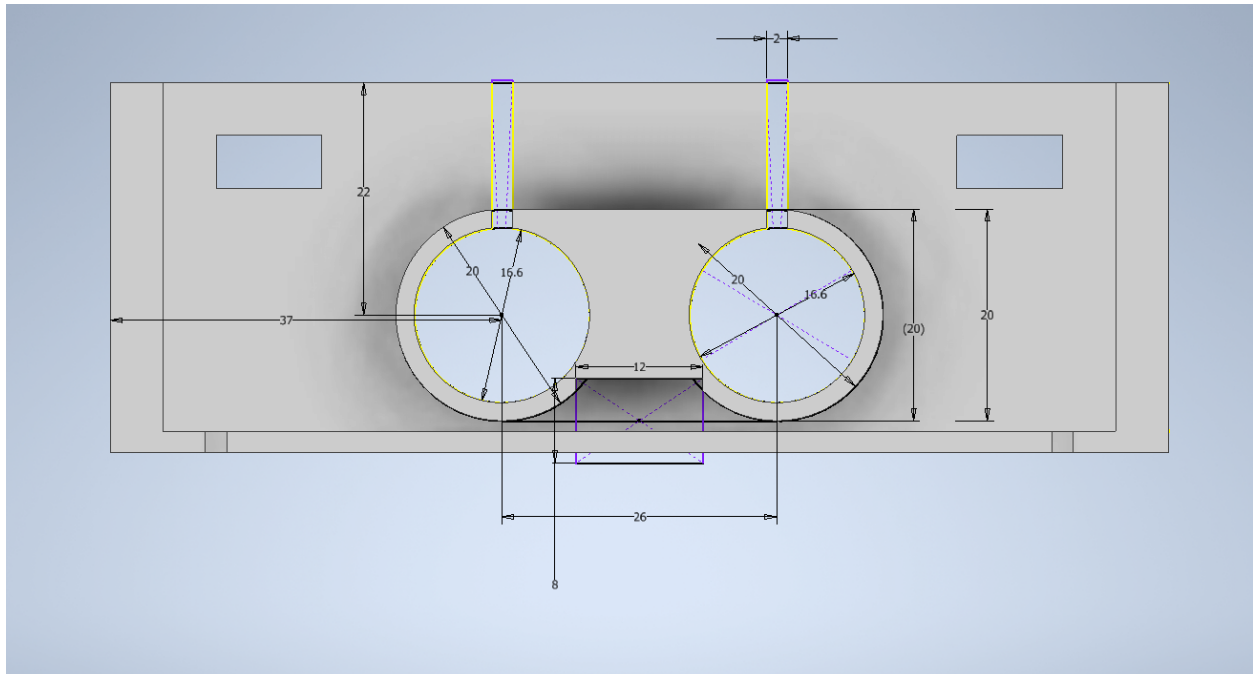
Top view of Jeff with dimensions

Bottom view of Jeff

Every hole or space for a bolt seen at the top of Jeff has a bigger space directly under the chassis to accommodate nuts so they don't disrupt the bot operation.
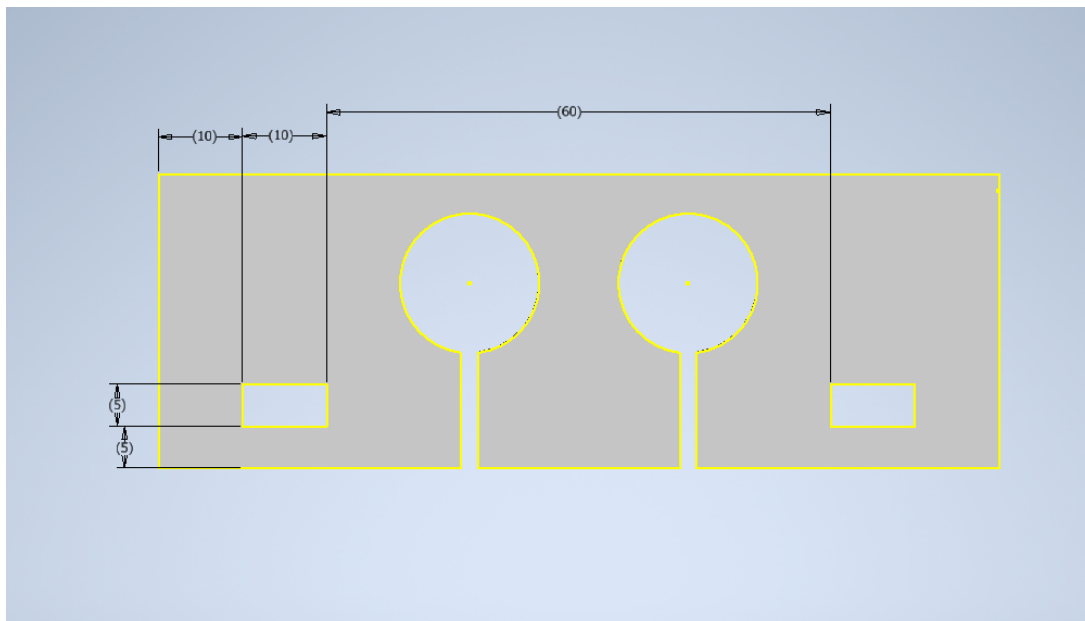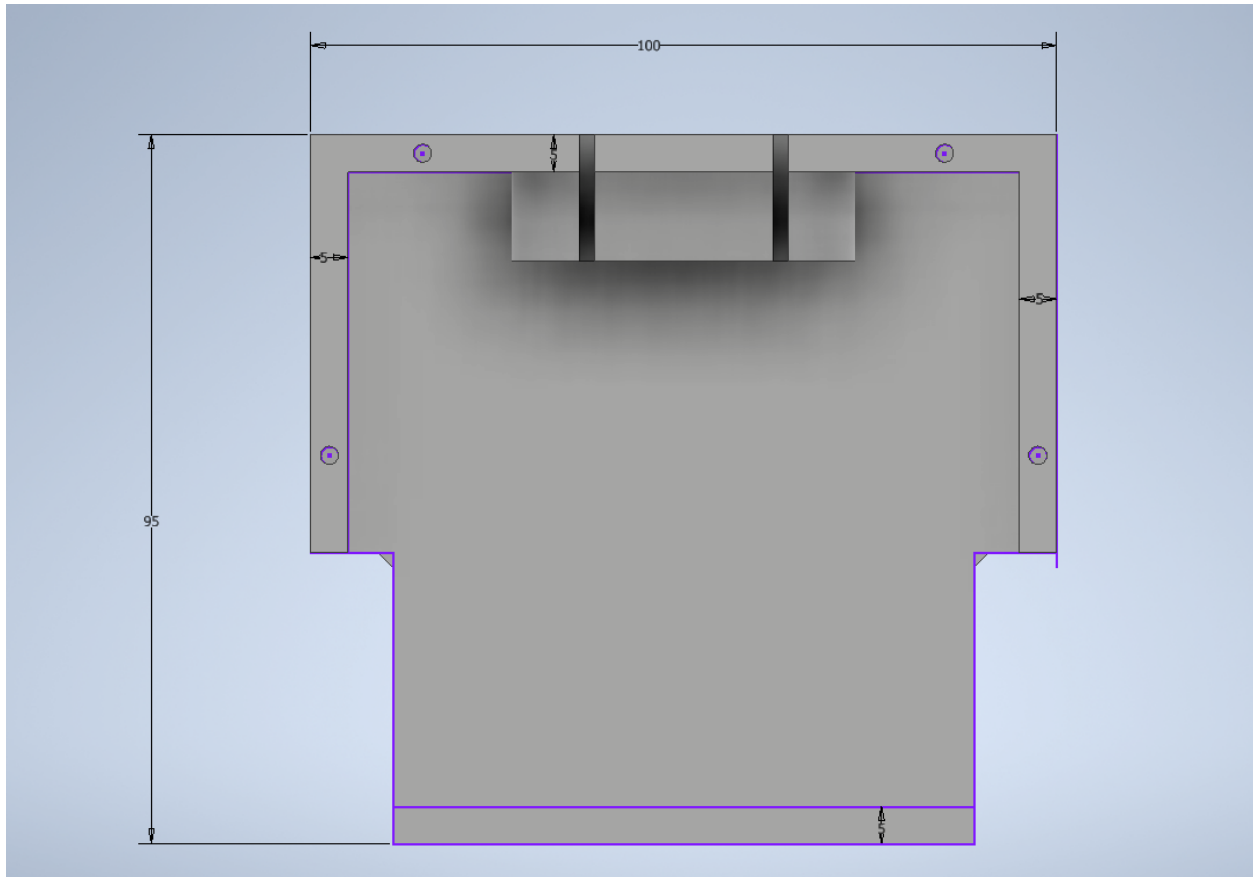

Jeff's hair

Isometric view of Jeff's hair

Front dimensions of Jeff's hair

Front dimensions for mount spaces

Bottom view with dimensions